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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/030,294	12/27/2001	Toshiyuki Sakai	442P090	9019

7590 11/23/2004  
Niels Lemack & Dingman  
176 E Main Street Suite 8  
Westboro, MA 01581

EXAMINER  
YU, MISOOK

ART UNIT PAPER NUMBER

1642

DATE MAILED: 11/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/030,294

Applicant(s)

SAKAI ET AL.

Examiner

MISOOK YU, Ph.D.

Art Unit

1642

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 07 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 3/12/02.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☒ Other: Exhibits A and B.

## **DETAILED ACTION**

### ***Election/Restrictions***

Applicant's election of group I in the reply filed on 9/7/2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). All non-elected claims are cancelled. Claims 1-5 are pending and examined on merits.

### ***Information Disclosure Statement***

The information disclosure statement filed 03/12/2002 contains two WO documents, i.e. WO 99/50412, and WO 99/61610 that are in Japanese and German respectively. It is noted that both documents are cited in the ISR. The English translation of the entire texts have not been submitted, therefore both documents have been considered to the extent (abstract, sequence listings, and some drawings) that the Examiner could understand.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, and 2 recite "under a stringent condition" but it is clear what the metes and bounds are. All dependent claims are also rejected because the scope

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encompassed by the dependent claims includes the hybridizing molecules under the unclear conditions.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-5 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 1-5 are interpreted as drawn to as a gene, and genus of nucleic acids encoding p51 5'untranslated region, wherein said gene or genus is in a recombinant plasmid (claim 3), in a transformant (claim 4).

The applicable standard for the written description requirement can be found: MPEP 2163; University of California v. Eli Lilly, 43 USPQ2d 1398 at 1407; PTO Written Description Guidelines; Enzo Biochem Inc. v. Gen-Prove Inc., 63 USPQ2d 1609; Vas-Cath Inc. v. Mahurkar, 19USPQ2d 1111; and University of Rochester v. G.D. Searle & Co., 69 USPQ2d 1886 (CA FC 2004).

First, the base claims 1 as currently construed reads on the entire p51 gene comprising SEQ ID NO:2 plus an native enhancer region controlling the transcription of said coding region because Darnell et al., (1990, Molecular Cell Biology, 2<sup>nd</sup> Edition,

pages 344-345 only) teach that a gene also includes enhancer. However, the specification does not disclose any enhancer element of p51 gene.

To provide adequate written description and evidence of possession of a claimed genus, the specification must provide sufficient distinguishing identifying characteristics of the genus. The factors to be considered include disclosure of complete or partial structure, physical and/or chemical properties, functional characteristics, structure/function correlation, methods of making the claimed product, or any combination thereof. In this case, the only factor present in the claim 2 is partial structure in form of mutations, and/or hybridization under an unclear hybridization condition. There is not even identification of any particular portion of the structure that must be conserved in order to have the recited function. Further, claim 2 does not say the identity of the function. Accordingly, in the absence of sufficient recitation of distinguishing identifying characteristics, the specification does not provide adequate written description of the claimed genus.

Vas-Cath Inc. v. Mahurkar, 19USPQ2d 1111, clearly states "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention is, for purposes of the 'written description' inquiry, *whatever is now claimed*." (See page 1117.) The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See Vas-Cath at page 1116). As discussed above, the skilled artisan cannot envision the detailed chemical structure of the encompassed genus of nucleic acid molecules, given that the specification has only

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described SEQ ID NO: 1 and 2 (note SEQ ID NO:2 is a slightly longer than SEQ ID NO:1, otherwise identical). Therefore, only isolated nucleic acid comprising SEQ ID NO:1 and 2, but not the full breadth of the claim meets the written description provision of 35 U.S.C. §112, first paragraph.

***Claim Rejections - 35 USC § 101***

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1, 2, and 5 are rejected under 35 USC 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1, 2, and 5, as written, do not sufficiently distinguish over nucleic acids, as they exist naturally because the claims do not particularly point out any non-naturally occurring differences between the claimed products and the naturally occurring products. In the absence of the hand of man, the naturally occurring products are considered non-statutory subject matter. See *Diamond v. Chakrabarty*, 447 U.S. 303, 206 USPQ 193 (1980). The claims should be amended to indicate the hand of the inventor, e.g., by insertion of "Isolated" or "Purified". See MPEP 2105.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 3, 4, and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by GenBank Acc. No. AQ168656 (16 October, 1998).

The claims are broadly interpreted as drawn to a nucleic acid sequence with various degrees of sequence similarities to either SEQ ID NO:1, or 2 (claim 1) or to specific portion of SEQ ID NO:2 (claim 2), wherein the claimed nucleic acid has p51 promoter activity (claim 1), or an undefined activity of the specific portion of SEQ ID NO:2 (claim 2), wherein a recombinant plasmid (claim 3), a transformant (claim 4), a nucleic acid probe (claim 5) are claimed.

GenBank Acc. No. AQ168656 teach a nucleic acid with 90.6 % similarity from nucleotide #672 to 1171 of instant SEQ ID NO:2 (note Exhibit A), and also teaches that the clone is in plasmid vector pBeloAAC11, which is a BAC clone in E. Coli strain DH10B. Thus, the strain of E. coli is a transformant. Since both claims 1, and 2 do not specify how many nucleic acid could be deleted, substituted, or added in the base sequence in SEQ ID NO:1, or the specific portion of SEQ ID NO:2 (note for example the claim construction of claim 1 (2), or claim 2 (8)), the scope is broadly interpreted as all of base deleted, substituted, and/or added. Therefore, it is concluded that the nucleic acid sequence of GenBank Acc. No. AQ168656 meets the structural limitation of the claimed nucleic acid. As for whether the nucleic acid of the art has either p51 promoter activity or has the unspecified function of the specific portion of SEQ ID NO:2, the Office does not have the facilities and resources to provide the factual evidence needed in order to establish that the nucleic acid of possess the same functional characteristics of the instantly claimed nucleic acid. In the absence of evidence to the contrary, the

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burden is on the applicant to prove that the claimed nucleic acid (especially in claim 1 (2), and (5)) is different from those taught by the prior art and to establish patentable differences. See *In re Best* 562F.2d 1252, 195 USPQ 430 (CCPA 1977) and *Ex parte Gray* 10 USPQ 2d 1922 (PTO Bd. Pat. App. & Int. 1989). Furthermore, the preamble recitation of probe in claim 5 is merely suggestive of an intended use and is not given patentable weight for purposes of comparing the claim with the prior art. The claim reads on the nucleic acid *per se*.

Claims 1, 2, and 5 are rejected under 35 U.S.C. **102(b)** as being anticipated by Yang et al., (1998, *Molecular Cell*, vol. 2, pages 305-316).

The claims are broadly interpreted as drawn to a nucleic acid sequence with various degrees of sequence similarities to either SEQ ID NO:1, or 2 (claim 1) or to specific portion of SEQ ID NO:2 (claim 2), wherein the claimed nucleic acid has related p51 promoter activity (claim 1), or an undefined activity of the specific portion of SEQ ID NO:2 (claim 2), a nucleic acid probe (claim 5) are claimed.

Yang et al., at Fig. 2A teach a genomic structure of p63 gene encoding at least 6 different splicing variants. It appears that p51 gene is same as p63 gene because GenBank Acc. No. AF124528 (Jan. 04, 2001) teaches that the C-terminal end of instant SEQ ID NO:2, more specifically nucleotides #5462 to #5960 of SEQ ID NO:2 is exon 1 of p63 (note Exhibit B) shown in Fig. 2A of Yang et al. Yang et al., at page 314 under the heading "Cloning of p63" teaches a 120 kb clone that contains all of the human p63 gene, also teach at page 308, right column "the human p63 PAC clone as a probe" is



used to map the gene to 3q27-29 (note also Fig. 3). Although Yang et al., do not list the nucleic acid sequence of the instant claimed promoter and/or 5' untranslated region sequence, it appears that the instantly claimed gene sequence and the sequence of p63 of the art are same. The court, especially Ex parte Gray 10 USPQ 2d 1922 (PTO Bd. Pat. App. & Int. 1989) stated that in order to be the same product, the art does not have to list the chemical composition of the product. Here, the human 120 kb clone used to map the p63 gene to 3q27-29 (note Fig. 3) appear to contain all of instantly claimed p51 gene including the promoter region, or the 5'-untranslated region. The Office does not have the facilities and resources to provide the factual evidence needed in order to establish that the nucleic acid of possess the same functional characteristics of the instantly claimed nucleic acid. In the absence of evidence to the contrary, the burden is on the applicant to prove that the claimed nucleic acid (especially in claim 1 (2), and (5)) is different from those taught by the prior art and to establish patentable differences. See In re Best 562F.2d 1252, 195 USPQ 430 (CCPA 1977) and Ex parte Gray 10 USPQ 2d 1922 (PTO Bd. Pat. App. & Int. 1989). Furthermore, the preamble recitation of probe in claim 5 is merely suggestive of an intended use and is not given patentable weight for purposes of comparing the claim with the prior art. The claim reads on the nucleic acid *per se*.

### **Conclusion**


Any inquiry concerning this communication or earlier communications from the examiner should be directed to MISOOK YU, Ph.D. whose telephone number is 571-

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272-0839. The examiner can normally be reached on 8 A.M. to 5:30 P.M., every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey C Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
MISOOK YU, Ph.D.  
Examiner  
Art Unit 1642

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 27, 2004, 07:46:34 ; Search time 13713 Seconds  
(without alignments)  
12976.823 Million cell updates/sec

Title: US-10-030-294-2

Perfect score: 5960

Sequence: 1 cagctgttcaggagatgctgc.....tttgcgtgatttgatc 5960

Scoring table:

IDENTITY NUC  
Gap 10.0, Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:\*  
1: em\_estba:\*  
2: em\_estbun:\*  
3: em\_estin:\*  
4: em\_estmu:\*  
5: em\_estov:\*  
6: em\_estpl:\*  
7: em\_estro:\*  
8: em\_hic:\*  
9: gb\_est1:\*  
10: gb\_est2:\*  
11: gb\_hic:\*  
12: gb\_est3:\*  
13: gb\_est4:\*  
14: gb\_est5:\*  
15: em\_estfun:\*  
16: em\_estom:\*  
17: em\_gss\_hum:\*  
18: em\_gss\_iny:\*  
19: em\_gss\_pln:\*  
20: em\_gss\_vit:\*  
21: em\_gss\_fun:\*  
22: em\_gss\_mam:\*  
23: em\_gss\_mus:\*  
24: em\_gss\_pro:\*  
25: em\_gss\_rod:\*  
26: em\_gss\_pbg:\*  
27: em\_gss\_vtl:\*  
28: gb\_gss1:\*  
29: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	427.8	7.2	523	28	AQ168656
2	378.2	6.3	638	13	BY723946
3	280.4	4.7	293	12	BG212218
4	267	4.5	288	12	BG219090

C	5	262	4.4	277	12	BG212753
C	6	184.6	3.1	567	12	B1497128
C	7	181.6	3.0	564	28	AQ275866
C	8	180.6	3.0	725	28	CC061176
C	9	180	3.0	828	28	BZ601705
C	10	179.8	3.0	733	28	AQ052879
C	11	179.6	3.0	567	13	BQ691256
C	12	179.6	3.0	810	28	AQ780966
C	13	179	3.0	637	13	BQ688837
C	14	178.8	3.0	440	9	A1362295
C	15	178.2	3.0	674	29	AG073447
C	16	178	3.0	463	13	BQ883640
C	17	177.8	3.0	449	9	A1356624
C	18	177.6	3.0	680	28	AQ750933
C	19	177.6	3.0	1025	12	BM307570
C	20	176	3.0	660	28	AQ046675
C	21	176	3.0	706	12	BM701690
C	22	175.4	2.9	330	9	AA226173
C	23	175	2.9	917	13	BU153359
C	24	174.2	2.9	657	28	AQ343025
C	25	174.2	2.9	834	28	AQ749761
C	26	174	2.9	430	14	CA395712
C	27	173.6	2.9	360	9	A1167878
C	28	173.4	2.9	677	14	CA307465
C	29	173.2	2.9	6069	11	BC036681
C	30	172.8	2.9	532	28	CC061208
C	31	172.4	2.9	589	10	BE562634
C	32	172.2	2.9	693	29	AG087187
C	33	172	2.9	549	14	W07317
C	34	171.8	2.9	416	9	AA715814
C	35	171.6	2.9	409	28	AQ413740
C	36	171.6	2.9	586	28	AQ038047
C	37	171.6	2.9	1201	12	AL543301
C	38	171.4	2.9	729	12	BG336633
C	39	171.4	2.9	1155	12	BM563733
C	40	171.2	2.9	456	14	D44625
C	41	171.2	2.9	491	28	AQ729774
C	42	171	2.9	535	28	AO623103
C	43	171	2.9	694	28	BZ603010
C	44	170.8	2.9	394	28	AQ080362
C	45	170.6	2.9	826	12	BG764269

## ALIGNMENTS

RESULT 1  
LOCUS AQ168656 523 bp DNA linear GSS 16-OCT-1998  
DEFINITION HS 3165 B2 F08 T7 CIT Approved Human Genomic Sperm Library D Homo sapiens genomic clone plate=3165 Col=16 Row=L, genomic survey sequence.

ACCESSION AQ168656  
VERSION AQ168656.1 GI:3566331  
KEYWORDS GSS.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

REFERENCE  
AUTHORS Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,  
1 (bases 1 to 523)  
Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,  
Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and  
Hood,L.

TITLE Sequence-tagged connectors: A sequence approach to mapping and  
scanning the human genome  
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)  
MEDLINE 99380589  
PUBMED 10449764

Contact: Mahairas GG, Wallace JC, Hood L  
High Throughput Sequencing Center  
University of Washington  
401 Queen Anne Avenue North, Seattle, WA 98109, USA  
Tel: (206) 616-3618



Exhibit B.  
Page 1 of 2

3981 GGCTGTGTCACAGAAATGATTAATTTTCAAGACCTTCAATTTAGGTCATCTA 4090  
 51809 GTCCATGCGCATAGAAATGATTAATTTCAATTTAAGAACTTATATAGAGTCATCTG 51868  
 4041 TATTTGCTAAATAGCAGGAAAGAAAGCCAACTTTTAATGCAATTAACAATCTATAT 4100  
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 51984 TTGGCTGGAGCGCAGGCGGCTGTTTGTGATTTCAAAATTCACAGATTTAGCCGCTC 52043  
 4219 TCGGCTTAAGTAAAGAAAGATGCAAGTTTAAATAGCTTCTCCCTTCATCTGCG 4278  
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 4819 TACATTAATATTAATTTTCAATTTTAAATCTTTAAGAAATTTACTATATATATGTA 4878  
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 4879 GTACATGTCATGTTTGAAGTATGATTAATTAATTAATTAATTAATTAATTAATTA 4938  
 52666 ATCTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 52724  
 4939 CCGGTACAGCAAGCTTTCAAGGATGTAAGAAAGGATATCTTTCTCT 4988  
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 4989 ----- 4988  
 52785 CT 52844  
 4989 -TAGCTAGAGAGAGAGTGTCTTAAGTTAAATATTAATTAATTAATTAATTAATTA 5047

52845 CT 52904  
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 5228 AATGTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5287  
 53080 AATGTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 53132  
 5288 AGGCTGCTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5347  
 53133 TGGCTTCTGTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 53192  
 5348 GAACTTCAAGATGCTCTCCAGCTCCAAATTTGCCAACAAGGTTGCTATTAAGTCA 5407  
 53193 GAACTTCAAGATGCTCTCCAGCTCCAAATTTGCCAACAAGGTTGCTATTAAGTCA 53243  
 5408 AGGACTCTGAAGCGGTGAGAGAGGAGGAGAAACATGATGAGAGATGCTGAGTGA 5467  
 53244 AGGACTCTGAAGCGGTGAGAGAGGAGGAGAAACATGATGAGAGATGCTGAGTGA 53302  
 5468 AGATGAGATGTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5527  
 53303 AGATGAGATGTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 53362  
 5528 AGCTCCGCTCTTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5587  
 53363 AGCTCCGCTCTTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 53422  
 5588 TAGCATTTGACCCATTTGCTTTAGCTCCCGCTTATTAATTAATTAATTAATTAATTA 5647  
 53423 TGGCATTTGACCCATTTGCTTTAGCTCCCGCTTATTAATTAATTAATTAATTAATTA 53482  
 5648 TGTGTATTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5707  
 53483 TATGTATTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 53542  
 5708 AATTTGAATCTTGAAGGTTGCAACCTTCAAAATTTGAATGAGTCTTGTATTAAGA 5767  
 53543 AATTTGAATCTTGAAGGTTGCAACCTTCAAAATTTGAATGAGTCTTGTATTAAGA 53602  
 5768 TGAATTTGAATGAGGTTGCAACCTTCAAAATTTGAATGAGTCTTGTATTAAGA 5827  
 53603 TGAATTTGAATGAGGTTGCAACCTTCAAAATTTGAATGAGTCTTGTATTAAGA 53662  
 5828 ATGTGTACGCTGTGTACAAAGAAATTTCTCTTGTATTAATTAATTAATTAATTAAT 5887  
 53721 TTGACCTTTGATGACCTTAAGGTTTGTATTAATTAATTAATTAATTAATTAATTAAT 53780  
 5948 TGATATTTGA 5958  
 53781 TTATTTCTGA 53791

RESULT 11  
 HSP63G01 835 bp DNA linear PRI 04-JAN-2001  
 LOCUS HSP63G01  
 DEFINITION Homo sapiens P63 protein (P63) gene, exon 1.  
 ACCESSION AF124528

